NASA'S MISSION TO PLANET EARTH

EARTH PROBES

DATA INFORMATION SYSTEM

EOS

EARTH OBSERVING SYSTEM

# Document Data Server
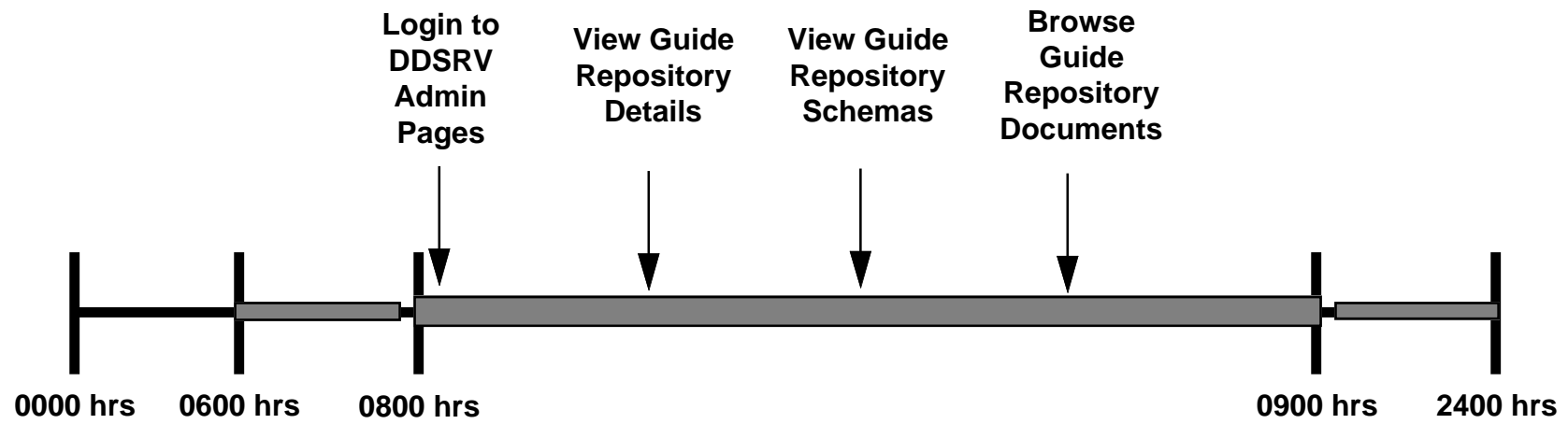
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# Overview

- This presentation highlights the GUIs used during the operation of the Document Data Server (DDSRV).  It uses the DDSRV Document Repository pages to illustrate the routine operation and maintenance activities which will be performed on the Release A ECS Document Data Server.

- **Context:**
    - Startup the Netscape Navigator 2.0 Web Browser
    - Specify the URL location of the DDSRV Administration Page
    - Provide a user name and password
    - All GUI Access to the DDSRV will be through secure HTML forms
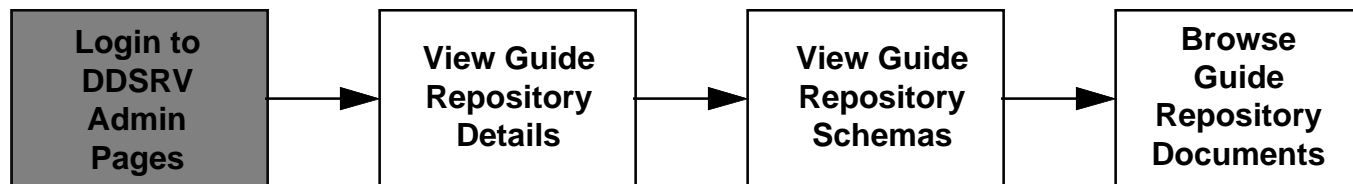    - HTML forms will be implemented using the Illustra Web DataBlade.

# Scenario Timeline
## Representative GSFC DAAC Document Repository Management

**Login to DDSRV Admin Pages**

**View Guide Repository Details**

**View Guide Repository Schemas**

**Browse Guide Repository Documents**

**0000 hrs**   **0600 hrs**   **0800 hrs**   **0900 hrs**   **2400 hrs**

▬ - operational day

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# DDSRV: Document Repository

```
┌──────────────┐      ┌──────────────┐      ┌──────────────┐      ┌──────────────┐
│  Login to    │      │  View Guide  │      │  View Guide  │      │    Browse    │
│   DDSRV      │ ───▶ │  Repository  │ ───▶ │  Repository  │ ───▶ │    Guide     │
│   Admin      │      │   Details    │      │   Schemas    │      │  Repository  │
│   Pages      │      │              │      │              │      │  Documents   │
└──────────────┘      └──────────────┘      └──────────────┘      └──────────────┘
```

**All activities performed by the Data Base Administrator**

# DDSRV Document Repository

## Document Repository:

This script describes the DDSRV GUIs Pages which are used to view the contents of the DDSRV Document Repository. These GUIs are intended to be used by a Release A DAAC Data Base Administrator in performing daily operation and maintenance tasks on the DDSRV Document Repository.

## Preconditions:

1. The DDSRV COTS and DEV components are installed and configured on the target environment.

2. The DDSRV Metadata Database and Document Repository is configured to accept Documents of a defined ESDT type.

3. All software processes and hardware components are active and not in any degraded mode of operation.

4. The DDSRV Document Repository is populated with a representative set of ECS documents.

5. The Data Base Administrator is logged into the DDSRV Administration pages.

## Context:

1. A science user discovers a broken link within a HTML document which is maintained externally to the ECS.

2. The web administrator maintaining the HTML document contacts the GSFC Rel A DAAC Data Base Administrator.

3. The Data Base Administrator uses the Rel A DDSRV Administration interface to locate the Document within the GSFC Document Repositories.

4. When the document location has been found the Data Base Administrator, s/he mails the URL to the external web administrator so the broken link may be corrected.

# Document Data Server

| Step No. | Time | Player | Activity | GUI |
|---|---|---|---|---|
| 1 | 8:00 | DataBase Admin. | The Data Base Administrator uses the Netscape Navigator 2.0 Web Browser to select the URL for the DDSRV Administration home page. | The DDSRV Administration home page is displayed on the Web Browser. |
| 2 | 8:05 | DataBase Admin. | From the DDSRV Administration Page, the Data Base Administrator selects the 'Document Repository' link. | The DDSRV Document Repository page is displayed on the Web Browser. |
| 3 | 8:06 | DataBase Admin. | The DDSRV Document Repository Page lists All Document Repositories installed in the Release A DDSRV. The Data Base Administrator wishes to view the contents of the Guide Repository. The Administrator selects the Guide Repository row in the Document Repository Selection list and selects the 'List' button to list the ESDTs associated with the Guide Repository. | The DDSRV Document Repository Page is displayed listing the ESDTs installed in the Guide Repository. |
| 4 | 8:07 | DataBase Admin. | The Data Base Administrator wants to view more information about the Guide Repository. S/he selects the Document Repository 'View' button. | The DDSRV Repository View Page is displayed giving more information about the Guide Repository.<br><br>The Guide Repository details are listed in the Document Repository text element, and the associated ESDTs are displayed in the Document Earth Science Data Types text element. |

# Document Data Server

| Step No. | Time | Player | Activity | GUI |
|----------|------|--------|----------|-----|
| 5 | 8:08 | DataBase Admin. | The Data Base Administrator views the information about the Guide Repository including its Repository ID, Name, Date Created, Number of Documents, Description and list of associated ESDTs.  S/he needs to find out further information about the schema for the installed ESDTs in the Guide Repository.  S/he selects the Document Repositories 'Schemas' button. | The DDSRV Repositories Schemas page is displayed on the Web Browser.  A summary of the Guide Repository information is displayed and a HTML Table of the DBMS Tables installed in the Guide Repository is displayed. |
| 6 | 8:10 | DataBase Admin. | From the DDSRV Repository Schemas page, the Data Base Administrator uses the 'View' link to view the schema information for the AVHRR_pages DBMS table. | The schema information about the AVHRR_pages table is displayed on the Web Browser. |
| 7 | 8:15 | DataBase Admin. | The Data Base Administrator needs to browse the contents of the Guide Repository.  Using the Web Browser 'Back' button, s/he returns to the DDSRV Repository View page. | The DDSRV Repository View page is displayed, giving the Guide Repository information and listing the associated ESDTs. |
| 8 | 8:20 | DataBase Admin. | The Data Base Administrator selects the Document Repository 'Browse' button. | The DDSRV Repository Browse page is displayed on the Web Browser.  The page defaults to the Guide Repository for the selected repository and the first ESDT (DataSet) for the ESDT. |

# Document Data Server

| Step No. | Time | Player | Activity | GUI |
|---|---|---|---|---|
| 9 | 8:25 | DataBase Admin. | The DDSRV Repository Browse page automatically displays the DataSet documents which have been inserted into the Guide Repository.<br><br>If the Data Base Administrator needs to list the documents for another ESDT, s/he selects the ESDT type from the selection list and presses the 'Select' button. | The DDSRV Repository Browse Page will be updated listing the documents for the selected ESDT type which have been inserted into the Guide Repository. |
| 10 | 8:30 | DataBase Admin. | The Data Base Administrator needs to view the abstract for a particular DataSet document. S/he uses the table of DataSet documents in the Guide Repository and selects the 'Abstract' link next to the Document ID. | The document Table of Contents is displayed in the Web Browser, the Data Base Administrator may view the abstract information for the document and follow the links to read the document in different formats. |
| 11 | 8:35 | DataBase Admin. | The Data Base Administrator needs to view the "NOAA/NASA Pathfinder AVHRR Land Data Sets" document in a particular CSDT format. The available CSDT formats are listed in the Repository Browse table. The Data Base Administrator needs to view the Postscript format of document with id '12345'. S/he selects the 'View' link for the PostScript version of the document. | Provided the Postscript helper application is correctly installed, the Web Browser will start the PostScript viewer and display the PostScript version of the document. |

# Document Data Server

| Step No. | Time | Player | Activity | GUI |
|---|---|---|---|---|
| 12 | 8:40 | DataBase Admin. | The Data Base Administrator mails the URL of the "NOAA/ NASA Pathfinder AVHRR Land Data Sets" document to the external web administrator.<br><br>S/he uses the File -> Mail Document option on the Web Browser to mail the URL to the external web administrator. | The Web Browser displays a Mail Compose window with the Document URL automatically listed in the mail message. |